

ABSTRACT

The present invention relates to hair care compositions comprising an oxidizing agent and chelants having a  $\frac{\log K_{\text{CuL}}}{\log K_{\text{CaL}}}$  ratio calculated at pH 10 of at least 3.20 wherein  $\log K_{\text{CuL}}$  is the common logarithm of the Conditional Stability Constant of said chelant with  $\text{Cu}^{2+}$  and  $\log K_{\text{CaL}}$  is the common logarithm of the Conditional Stability Constant of said chelant with  $\text{Ca}^{2+}$ . Suitable chelants are diamine-N,N'-dipolyacids or monoamine monoamide-N,N'-dipolyacids. The compositions according to the present invention contribute to reducing the oxidative damage sustained by a keratinous fiber such as hair during bleaching, dyeing, perming or other oxidative treatments. Especially preferred diamine dipolyacid is ethylenediamine-N,N'-disuccinic acid (EDDS).